

FIG.1

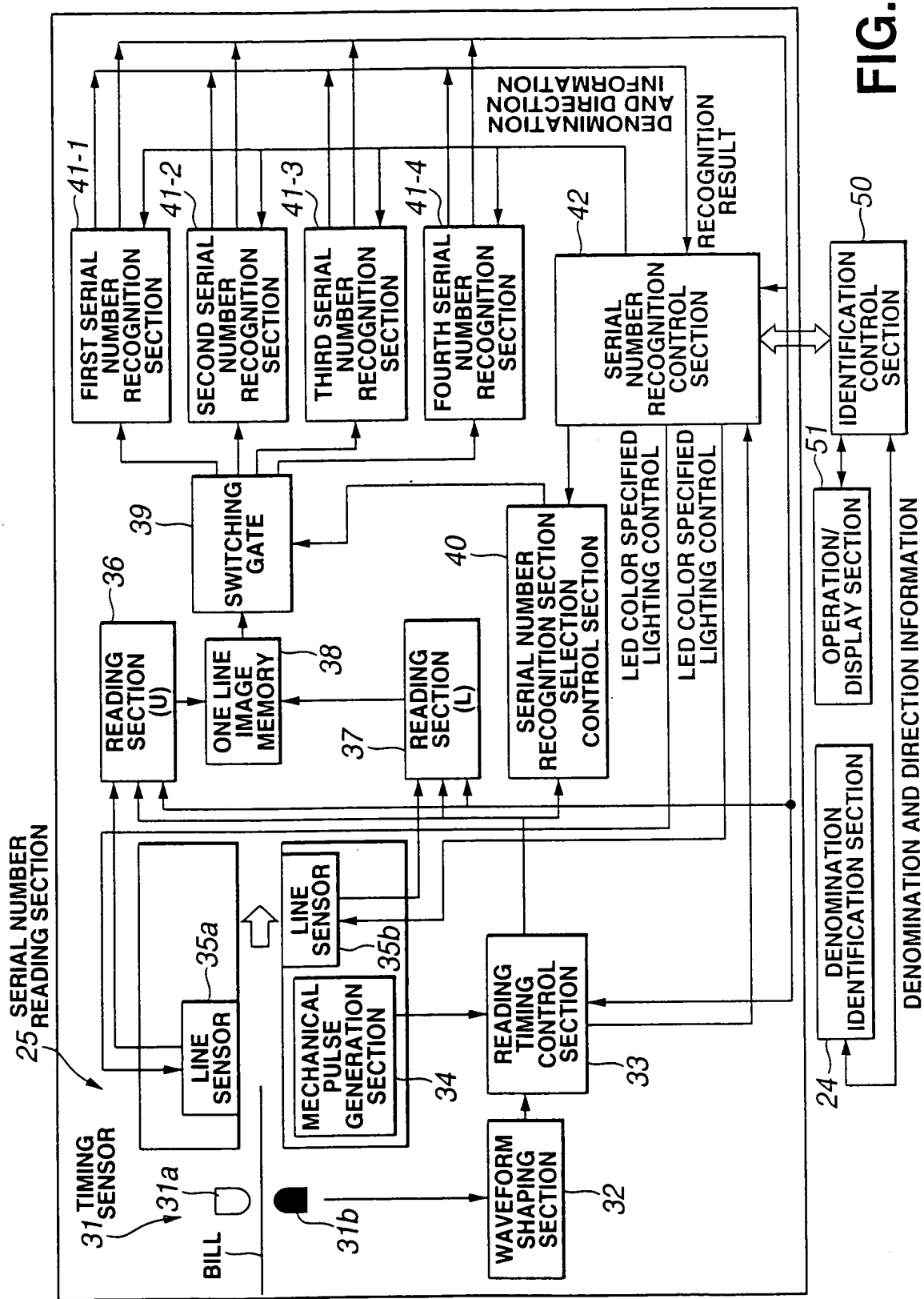


FIG. 2

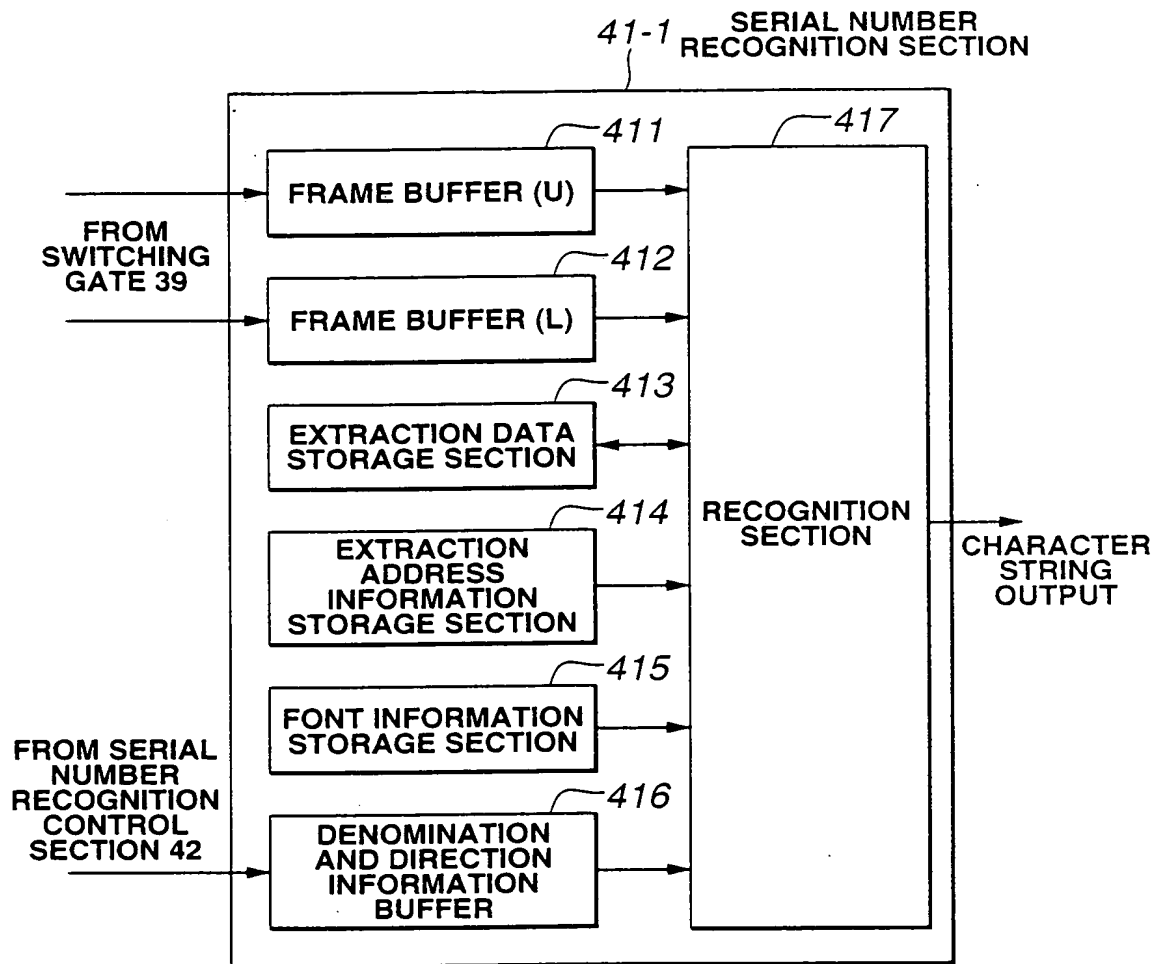


FIG.3

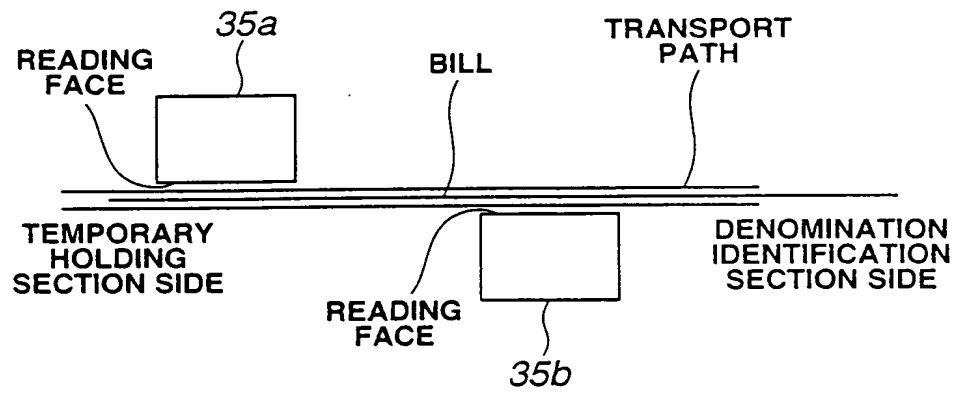


FIG. 4(a)

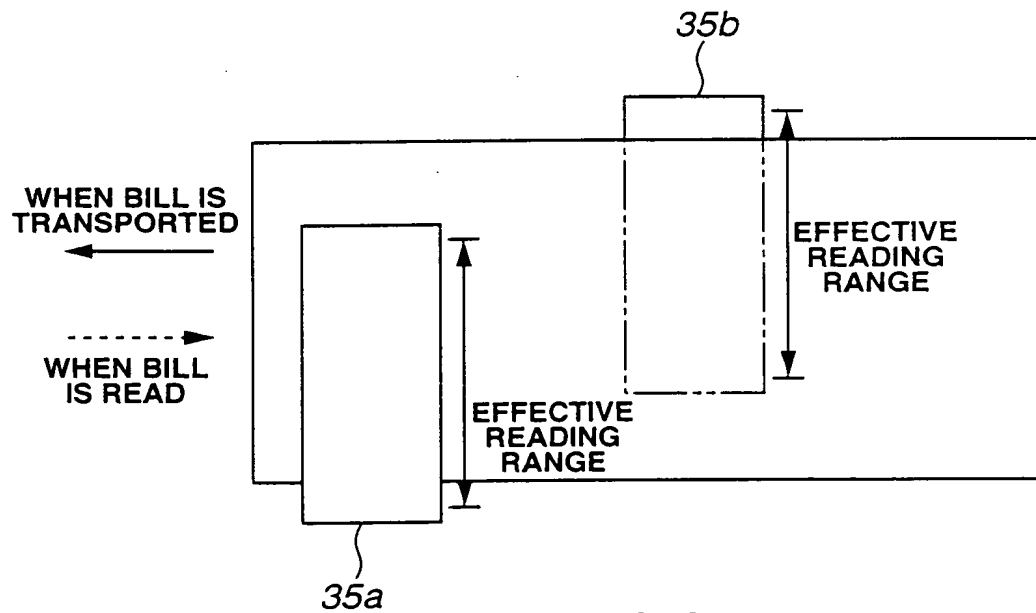


FIG. 4(b)

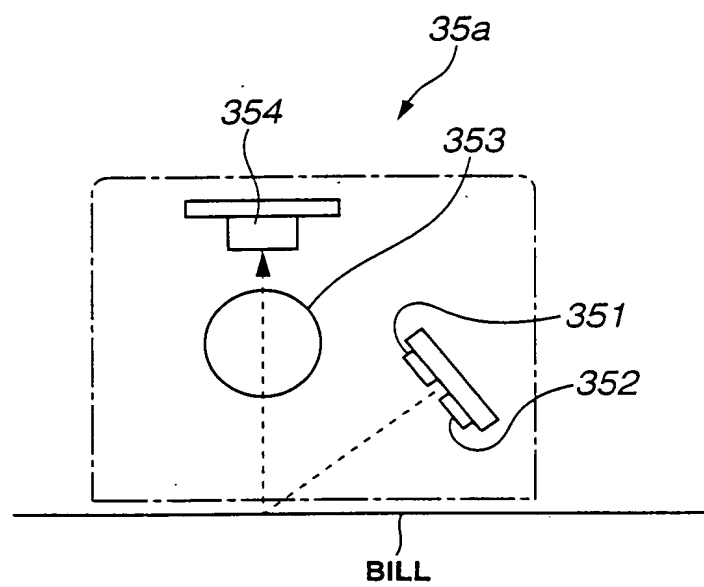
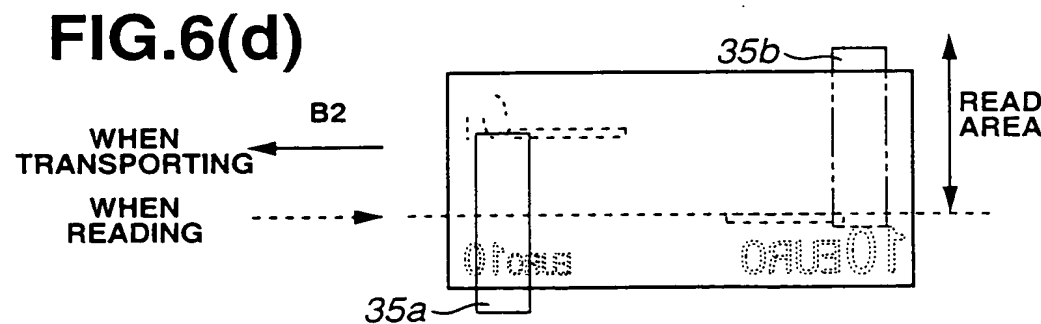
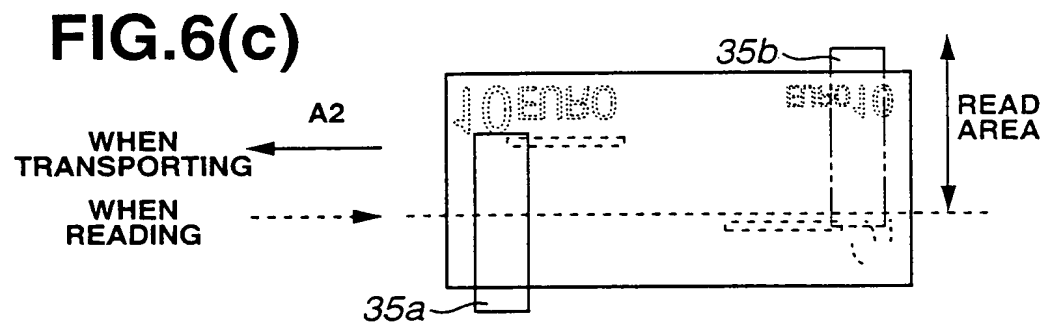
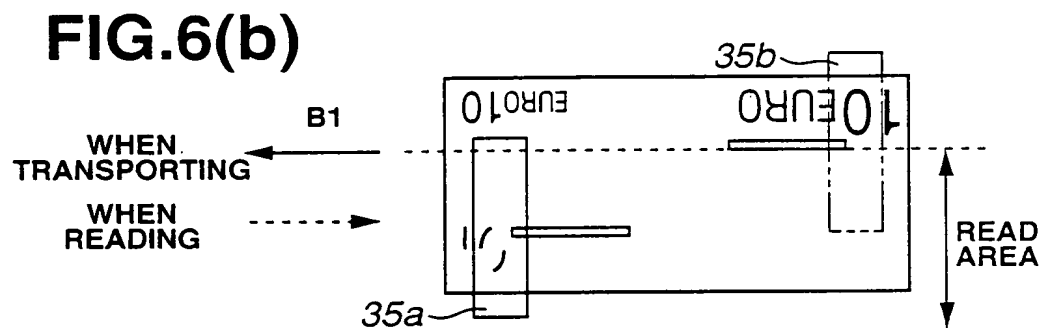
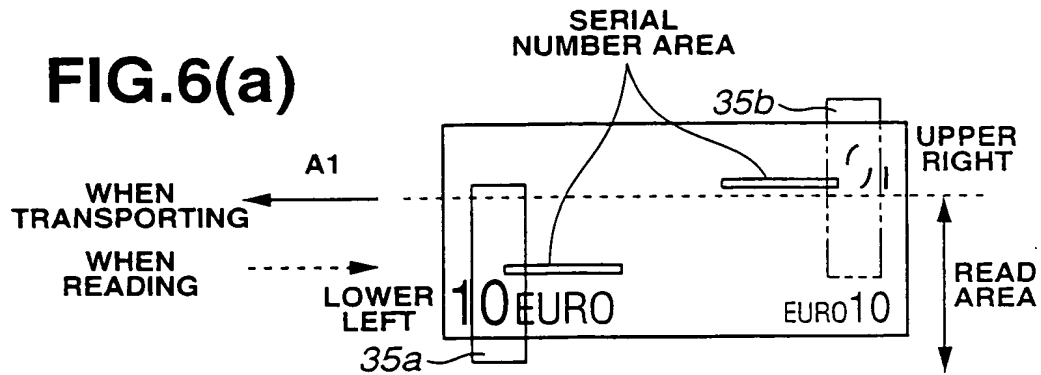


FIG.5



DENOMINATION	POSITION	BACKGROUND COLOR	SERIAL NUMBER COLOR	LIGHT SOURCE
5 EURO	LOWER LEFT	GRAY/ BLUE	GRAY	GREEN
5 EURO	UPPER RIGHT	GRAY	BLACK	GREEN
10 EURO	LOWER LEFT	GRAY/ RED	DARK RED	GREEN
10 EURO	UPPER RIGHT	RED	BLACK	RED
20 EURO	LOWER LEFT	GRAY/ BLUE	DARK BLUE	GREEN
20 EURO	UPPER RIGHT	BLUE	BLACK	GREEN
50 EURO	LOWER LEFT	GRAY/ YELLOW	DARK BROWN	RED
50 EURO	UPPER RIGHT	BROWN	BLACK	RED
100 EURO	LOWER LEFT	GRAY/ GREEN	DARK GREEN	RED
100 EURO	UPPER RIGHT	GREEN	BLACK	GREEN
200 EURO	LOWER LEFT	GRAY/ YELLOW	DARK YELLOW	RED
200 EURO	UPPER RIGHT	YELLOW	BLACK	RED
500 EURO	LOWER LEFT	GRAY/ PURPLE	DARK PURPLE	RED
500 EURO	UPPER RIGHT	PURPLE	BLACK	RED
1 US \$		WHITE	GREEN	RED

FIG.7

LIGHT SOURCE SELECTION TABLE

DENOMINATION (EURO)	FEED DIRECTION	LINE SENSOR	LIGHT SOURCE (EMISSION COLOR)
5	A1	TOP	GREEN
	A2	BOTTOM	GREEN
	B1	TOP	GREEN
	B2	BOTTOM	GREEN
10	A1	TOP	GREEN
	A2	BOTTOM	GREEN
	B1	TOP	RED
	B2	BOTTOM	RED
⋮	⋮		
500	A1	TOP	RED
	A2	BOTTOM	RED
	B1	TOP	RED
	B2	BOTTOM	RED

FIG.8

**DENOMINATION/DIRECTION
MANAGEMENT TABLE**

422

ID NUMBER	DENOMINATION (EURO)	DIRECTION
ID1	10	A1
ID2	10	A2
ID3	20	B1
ID4	20	A1
⋮	⋮	⋮
IDn	50	B2

FIG.9

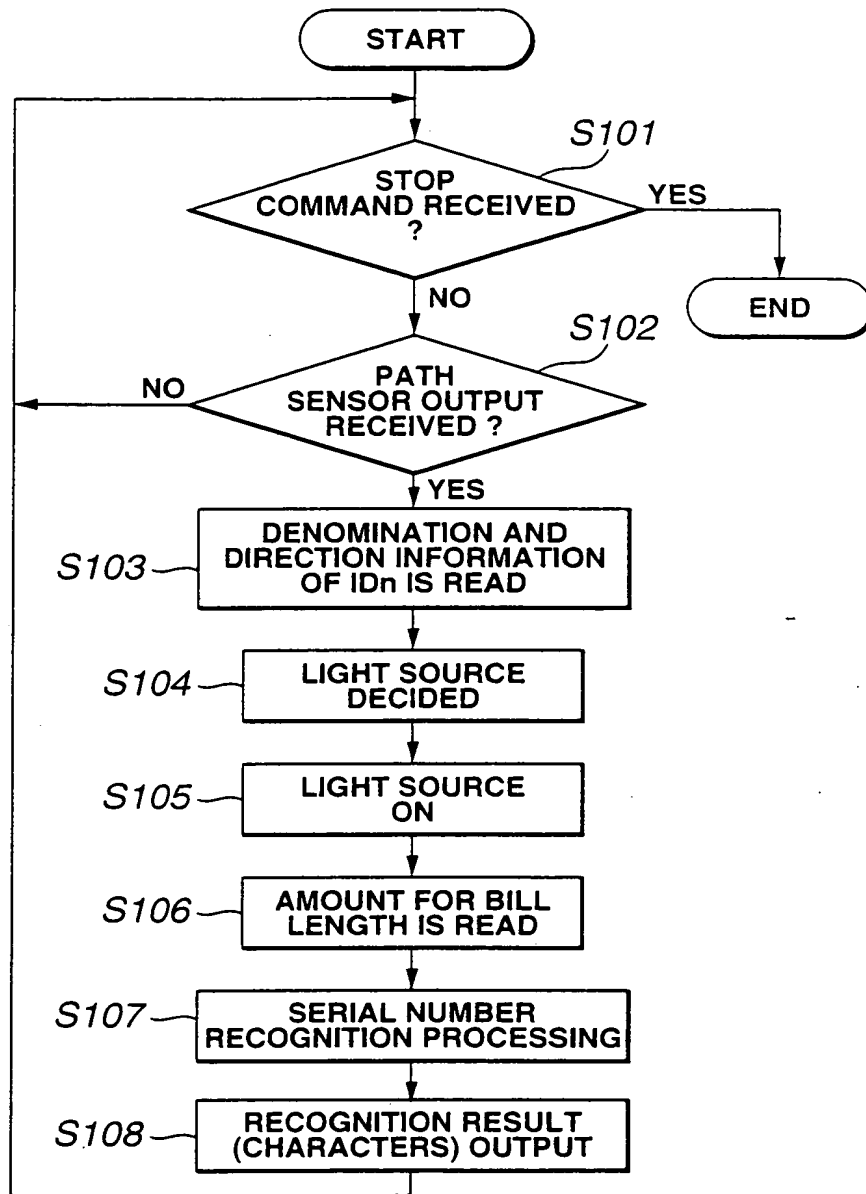


FIG.10

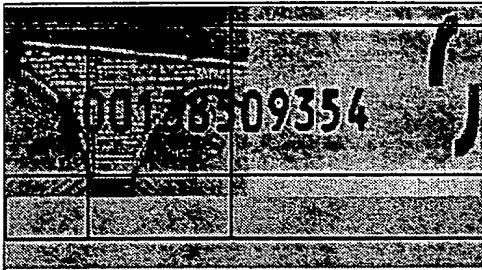
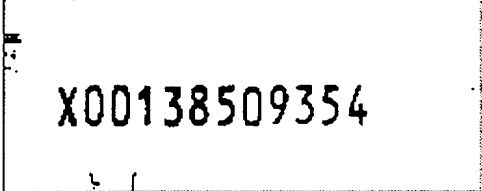

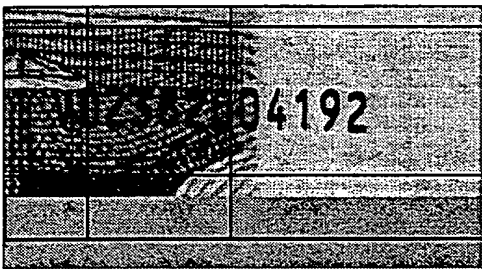
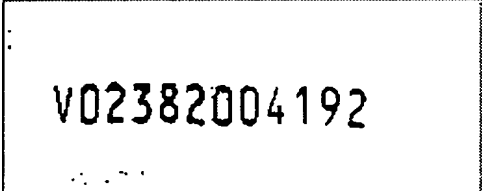
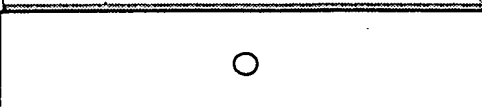
LIGHT SOURCE	DENOMINATION		
GREEN	20 EURO		GRAY IMAGE
			BINARY IMAGE
			JUDGMENT
RED	50 EURO		GRAY IMAGE
			BINARY IMAGE
			JUDGMENT

FIG.11

BEST AVAILABLE COPY

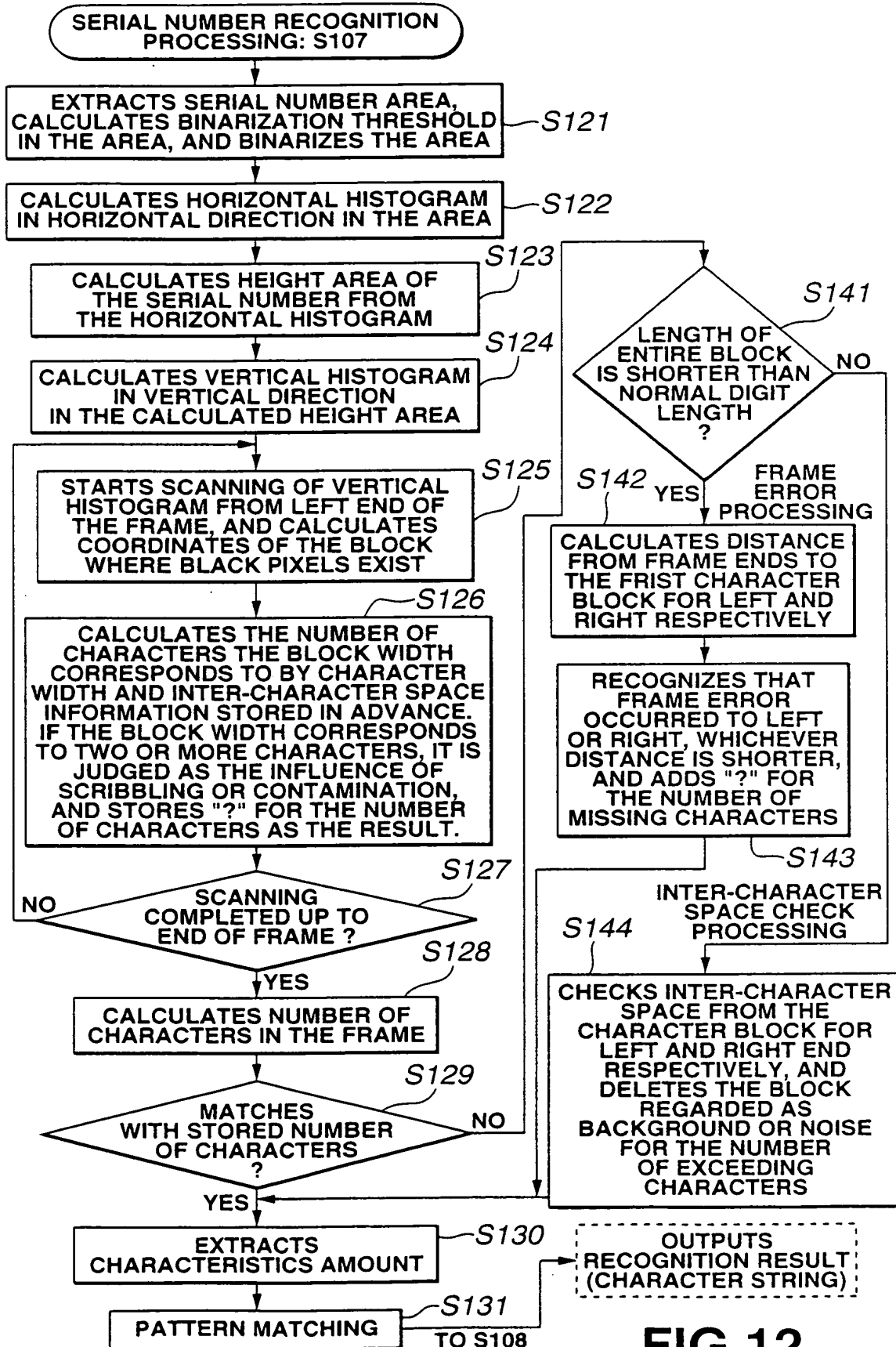


FIG.13(a)



FIG.13(b)

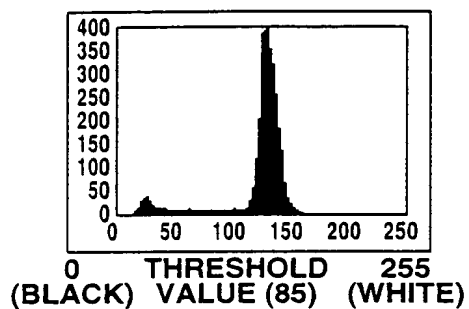


FIG.13(c)

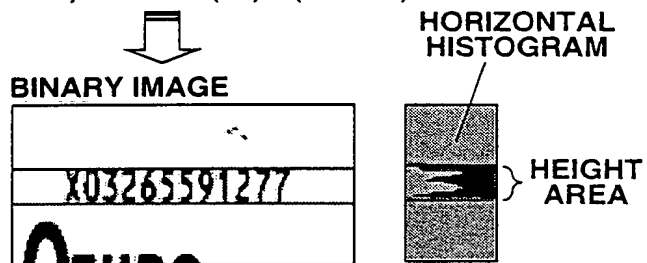


FIG.13(d)

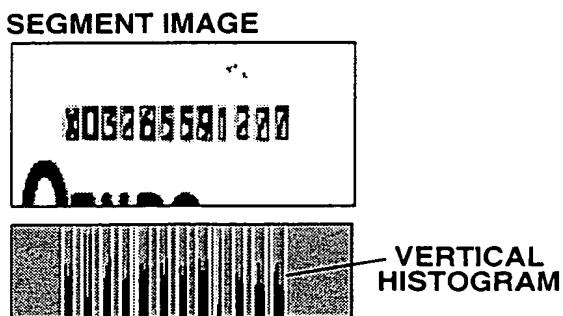
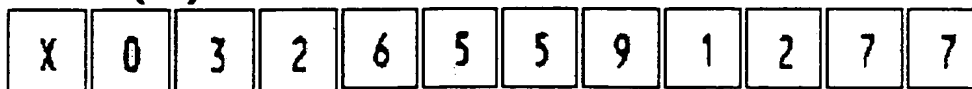


FIG.13(e)

SCANNING DIRECTION

CHARACTER BLOCK



BEST AVAILABLE COPY

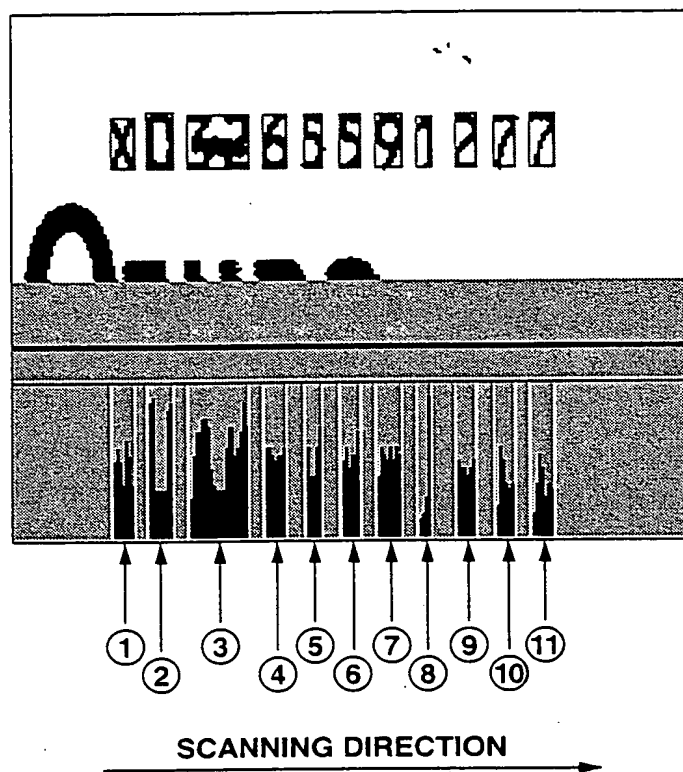


FIG.14(a)

RECOGNITION
RESULT

↓

X 0 ? ? 6 5 5 9 1 2 7 7

FIG.14(b)

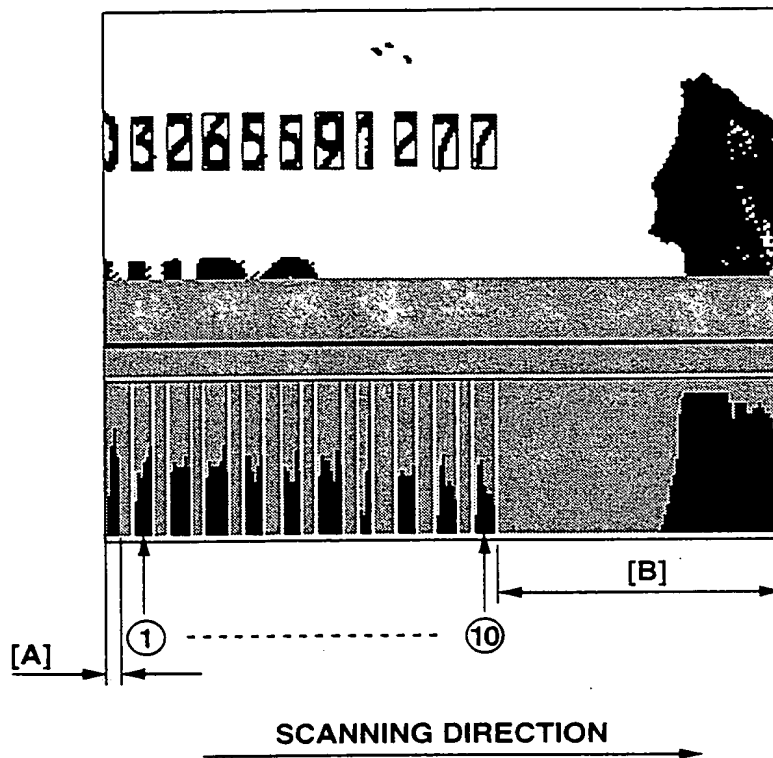
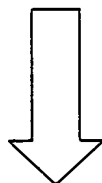


FIG.15(a)

RECOGNITION
RESULT



? ? 3 2 6 5 5 9 1 2 7 7

FIG.15(b)

BEST AVAILABLE COPY

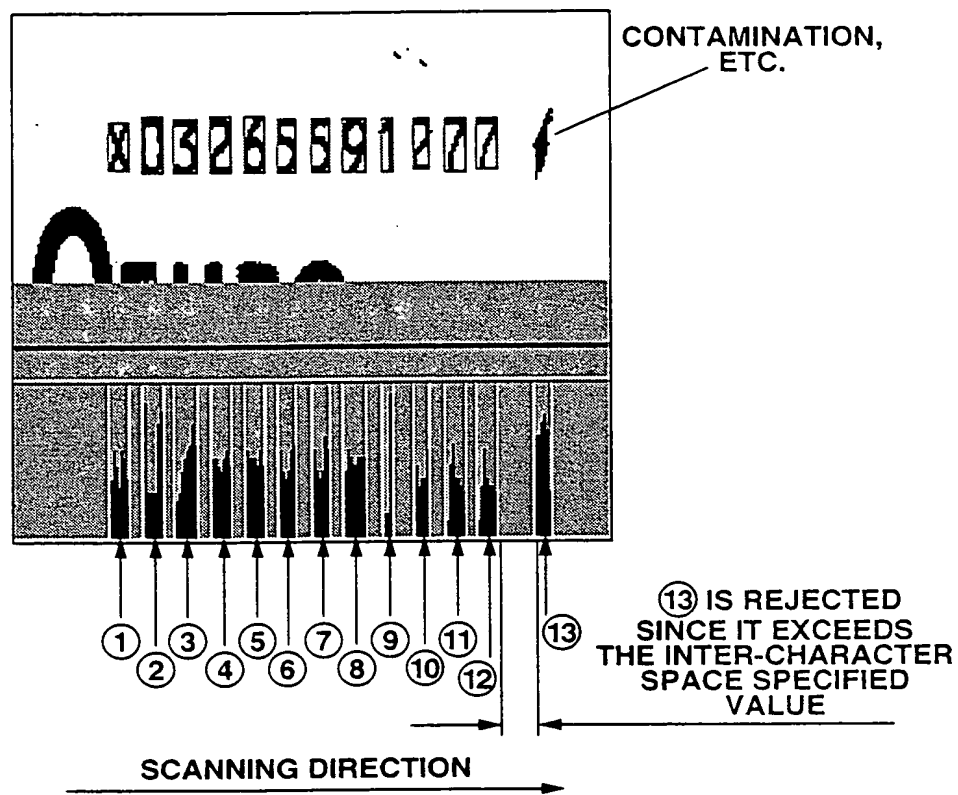
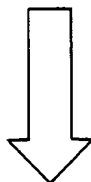


FIG.16(a)

RECOGNITION
RESULT



X 0 3 2 6 5 5 9 1 2 7 7

FIG.16(b)

BEST AVAILABLE COPY

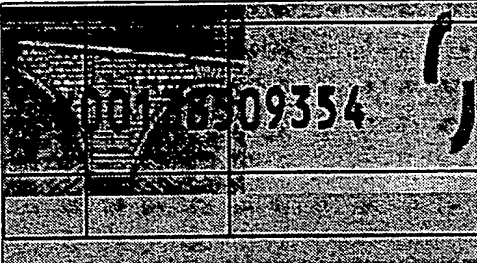
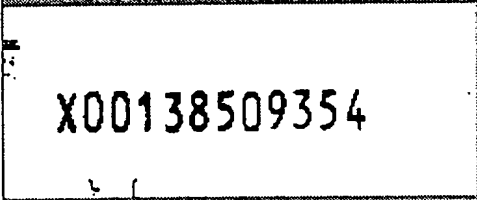


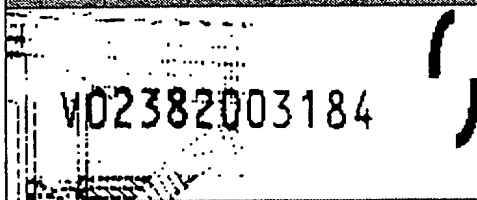
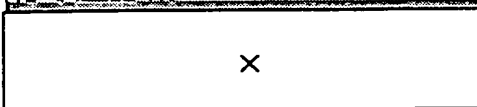
LIGHT SOURCE	DENOMINATION			
GREEN	20 EURO		GRAY IMAGE	
			BINARY IMAGE	
			JUDGMENT	
	50 EURO		GRAY IMAGE	
			BINARY IMAGE	
			JUDGMENT	

FIG.17

BEST AVAILABLE COPY

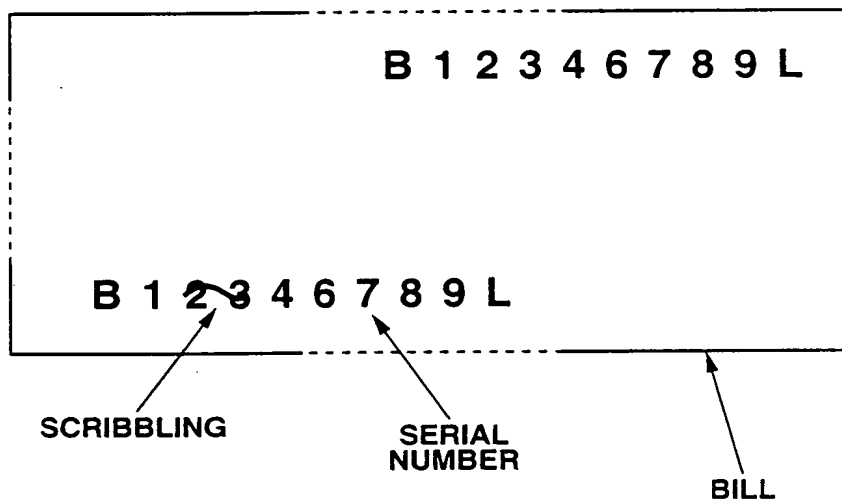


FIG.18